CLEAR WATER
SERVICES

Project: **Alaska Copper Works** **Inspection Date:** 11/18/19

Project No.: 19ACW1 **Technician:** David DuBois

System Performance:

Was system running during the inspection? ☐ Yes ☒ No

Flow Rates (gpm)	Influent 100	Effluent n/a	The flows should be ~155 gpm	
Bag Filter #1 Pressures (psi)	Influent 11	Effluent 10	The bag filters should be replaced if differential pressure > 8 psi	
Bag Filter #2 Pressures (psi)	Influent 15	Effluent 10		
Carbon Filter Pressures (Lead)	Influent n/a	Effluent n/a	The carbon filters should be backflushed if differential pressure > 8 psi	
Carbon Filter Pressures (Lag)	Influent n/a	Effluent n/a		

Were the bag filters replaced? ☒ Yes ☐ No

Was the carbon backflushed? ☐ Yes ☒ No

Maintenance and Inspection Checklist:

Task	Completed (Y/N)	Issues/Notes/Comments
Walchem Controller Inspected	☒ Yes ☐ No	No issues
Flow Meters Inspected	☒ Yes ☐ No	No issues
Level Sensor Cleaning/Inspection	☒ Yes ☐ No	
Inspect System Plumbing	☒ Yes ☐ No	
Pumps Inspected	☒ Yes ☐ No	No vibrations or noise
General Housekeeping	☒ Yes ☐ No	
Chemistry Level	☒ Yes ☐ No	20 gallons 10% Caustic 55 gallons 25% Caustic
Safety Materials Inspected	☒ Yes ☐ No	
pH Probe Inspection/Calibration	☒ Yes ☐ No	Calibrated - OK

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Water Sampling:

Were water samples taken?   ☐ Yes ☒ No

Raw water:	pH	6.27	Turbidity	4.00	NTU
Bag Filter Influent	pH	9.02	Turbidity	6.66	NTU
Bag Filter Effluent	pH	8.97	Turbidity	4.33	NTU
Carbon Filter Influent	pH	n/a	Turbidity	n/a	NTU
Carbon Filter Effluent	pH	n/a	Turbidity	n/a	NTU

Monthly Tasks:

Were samples submitted to Analytical? ☐ Yes ☒ No

Analytical Lab: _____

Was Walchem data downloaded?   ☐ Yes ☒ No

Were the tank sludge levels checked?   ☐ Yes ☒ No

Sludge Depth (inches):

Decant Tank: _____

Treatment tank: _____

Backflush tank: _____

Main lift station: _____

North lift station: _____

South lift station: _____

Additional Comments, Recommendations and System Upsets:

Filters replaced on 11/14/19, four unused filters remain onsite.
Not enough water to collect carbon vessel parameters.
Recalibrated pH probe to reduce caustic dosing.

David DuBois	Project Lead Technician	11/18/19
Technician	Title	Date

Submit